

where[in] the [said at least one] lead element is capable of causing occlusion of a vessel.

2. (Amended) The intravascular device of claim 1, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

3. (Amended) The intravascular device of claim 1, where[in] the [said at least one] lead element comprises an expansible element.

4. (Amended) The intravascular device of claim 1, where[in] the [said at least one] lead element comprises a particle.

5. (Amended) The intravascular device of claim 1, where[in] the [said at least one] lead element comprises a coil.

6. (Amended) The intravascular device of claim 1, where[in] the [said] trailing element is chemically detachable from the [said at least one] lead element.

7. (Amended) The intravascular device of claim 1, where[in] the [said] trailing element is mechanically detachable from the [said at least one] lead element.

8. (Amended) The intravascular device of claim 1, where[in] the [said at least one] lead element functions as an anchoring element.

9. (Amended) The intravascular device of claim 1, further comprising a fiber detachably interconnecting the [said at least one] lead element and the [said] trailing element.

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10. (Amended) The intravascular device of claim 1, where[in] the end of the [said] detachment apparatus has the shape of a loop, and where[in] the [said] trailing element comprises a hook adapted to engage the [said] loop.

11. (Amended) The intravascular device of claim 10, where[in] the [said at least one] lead element comprises a coil.

12. (Amended) An intravascular device comprising:
a [at least one] lead element;
a trailing element; and
a fiber detachably interconnecting the trailing element to the [said at least one] lead element;
where[in] the [said at least one] lead element is capable of causing occlusion of a vessel.

13. (Amended) The intravascular device of claim 12, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

14. (Amended) The intravascular device of claim 12, where[in] the [said at least one] lead element comprises a coil.

15. (Amended) The intravascular device of claim 12, where[in] the [said at least one] lead element functions as an anchoring element.

16. (Amended) An intravascular device for use with a catheter having a detachment apparatus, the [said] device comprising:

a [at least one] lead element;

a trailing element; and

a fiber detachably interconnecting the trailing element to the [said at least one] lead element;

where[in] the [said at least one] lead element is capable of causing occlusion of a vessel, and where[in] the [said] trailing element is adapted for attachment to the [said] detachment apparatus.

17. (Amended) The intravascular device of claim 16, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

18. (Amended) The intravascular device of claim 16, where[in] the [said at least one] lead element comprises a coil.

19. (Amended) The intravascular device of claim 16, where[in] the [said at least one] lead element functions as an anchoring element.

20. (Amended) The intravascular device of claim 16, where[in] the end of the [said] detachment apparatus has the shape of a loop, and where[in] the [said] trailing element comprises a hook adapted to engage the [said] loop.

21. (Amended) The intravascular device of claim 20, where[in] the [said at least one] lead element comprises a coil.

22. (Amended) An intravascular device for use with a catheter having a detachment apparatus, the [said] device comprising:

a [at least one] lead element; and

a trailing element interconnected to the [at least one said] lead element, the [said] trailing element adapted for attachment to the [said] detachment apparatus;

where[in] the [said at least one] lead element is structured to cause occlusion of a vessel.

23. (Amended) The intravascular device of claim 22, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

24. (Amended) The intravascular device of claim 22, where[in] the [said at least one] element comprises an expansible element.

25. (Amended) The intravascular device of claim 22, where[in] the [said at least one] lead element comprises a particle.

26. (Amended) The intravascular device of claim 22, where[in] the [said at least one] lead element comprises a coil.

27. (Amended) The intravascular device of claim 22, where[in] the [said at least one] lead element is formed of polyvinyl alcohol material.

28. (Amended) The intravascular device of claim 22, where[in] the [said at least one] lead element is bioactive.

29. (Amended) An intravascular device comprising:

a [at least one] lead element;

a trailing element; and

a fiber interconnecting the trailing element to the [said at least one] lead element;

where[in] the [said at least one] lead element is capable of causing occlusion of a vessel.

30. (Amended) The intravascular device of claim 29, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

31. (Amended) The intravascular device of claim 29, where[in] the [said at least one] lead element comprises a coil.

32. (Amended) The intravascular device of claim 29, where[in] the [said at least one] lead element is formed of polyvinyl alcohol material.

33. (Amended) The intravascular device of claim 29, where[in] the [said at least one] lead element is bioactive.

34. (Amended) An intravascular device for use with a catheter having a detachment apparatus, the [said] device comprising:

a [at least one] lead element;

a trailing element; and

a fiber interconnecting the trailing element to the [said at least one] lead element;

where[in] the [said at least one] lead element is capable of causing occlusion of a vessel, and where[in] the [said] trailing element is adapted for attachment to the [said] detachment apparatus.

35. (Amended) The intravascular device of claim 34, where[in] the [said at least one] lead element comprises a material capable of producing thrombosis.

36. (Amended) The intravascular device of claim 34, where[in] the [said at least one] lead element comprises a coil.

37. (Amended) The intravascular device of claim 34, where[in] the [said at least one] lead element is formed of polyvinyl alcohol material.

B2 38. (Amended) The intravascular device of claim 34, where[in] the [said at least one] lead element is bioactive.

39. (Amended) The intravascular device of claim 34, where[in] the [said] fiber is metallic.

40. (Amended) The intravascular device of claim 34, where[in] the [said] fiber is non-metallic.

41. (Amended) A method of producing occlusion of a vessel including the steps of:
providing an intravascular device having a lead element and a trailing
element interconnected to the [said] lead element;
providing a detachment apparatus;
attaching the [said] trailing element to the [said] detachment apparatus;
inserting an introducing catheter with a distal end into the vessel such that
the distal end is adjacent to the desired deployment location;
inserting the intravascular device into the introducing catheter;
introducing the intravascular device into the vessel from the introducing
catheter whereby the [said] lead element is positioned to cause occlusion of the
vessel; and

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detaching the intravascular device from the [said] detachment apparatus.

Please add the following claims:

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42. An intravascular device for use with a catheter having a detachment apparatus, the device comprising:

a lead element; and

a trailing element interconnected to the lead element, the trailing element adapted for attachment to the detachment apparatus;

the lead element and the trailing element comprising coils;

where the lead element is structured to cause occlusion of a vessel.

43. The intravascular device of claim 42, in which the coils comprise helical coils.

44. An intravascular device for use with a catheter having a detachment apparatus, the device comprising:

a lead element; and

a trailing element interconnected by a polymeric member to the lead element, the trailing element adapted for attachment to the detachment apparatus;

where the lead element is structured to cause occlusion of a vessel.

45. An intravascular device for use with a catheter having a detachment apparatus, the device comprising: